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(Original Signature of Member)

115TH CONGRESS
2D SESSION

H. R.

To amend the United States Energy Storage Competitiveness Act of 2007 to direct the Secretary of Energy to establish new goals for the Department of Energy relating to energy storage and to carry out certain demonstration projects relating to energy storage.

IN THE HOUSE OF REPRESENTATIVES

Mr. KNIGHT introduced the following bill; which was referred to the Committee on _____

A BILL

To amend the United States Energy Storage Competitiveness Act of 2007 to direct the Secretary of Energy to establish new goals for the Department of Energy relating to energy storage and to carry out certain demonstration projects relating to energy storage.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Better Energy Storage
5 Technology Act of 2018” or the “BEST Act of 2018”.

1 **SEC. 2. GOALS OF THE DEPARTMENT OF ENERGY RELAT-**
2 **ING TO ENERGY STORAGE COMPETITIVE-**
3 **NESS.**

4 The United States Energy Storage Competitiveness
5 Act of 2007 (42 U.S.C. 17231) is amended—

6 (1) by striking subsection (d) and inserting the
7 following:

8 “(d) COORDINATION; RESEARCH GOALS.—

9 “(1) COORDINATION.—In carrying out the ac-
10 tivities under this section, the Secretary shall coordi-
11 nate the activities with—

12 “(A) appropriate Federal agencies, includ-
13 ing the Department of Transportation and the
14 Federal Energy Regulatory Commission; and

15 “(B) in order to advance the development
16 of commercially viable energy storage systems,
17 members of private industry.

18 “(2) RESEARCH GOALS.—The Secretary shall—

19 “(A) establish subgoals for the programs
20 established under subsections (e), (f), and (g)
21 that support research and development nec-
22 essary for demonstration projects under sub-
23 section (i)(5); and

24 “(B) align specific activities carried out
25 under the program established under subsection

1 (c) with priorities identified through direct con-
2 sultations between—

3 “(i) the Department;

4 “(ii) national laboratories;

5 “(iii) traditional end-users, such as
6 electric utilities; and

7 “(iv) potential end-users of new gen-
8 erations of energy storage systems.”; and

9 (2) in subsection (i), by adding at the end the
10 following:

11 “(5) PHASE 2 OF GRID-SCALE ENERGY STOR-
12 AGE DEMONSTRATION PROJECTS.—

13 “(A) IN GENERAL.—Not later than Sep-
14 tember 30, 2028, as part of the program estab-
15 lished under subsection (c), the Secretary shall,
16 to the maximum extent practicable, enter into
17 agreements to carry out not fewer than 3 grid-
18 scale energy storage demonstration projects.

19 “(B) OBJECTIVES.—Each demonstration
20 project carried out under subparagraph (A)
21 shall be designed to further the development of
22 different technologies that ultimately could—

23 “(i) demonstrate that grid-scale en-
24 ergy storage technologies can be commer-
25 cially deployed;

1 “(ii) be deployed at an installed en-
2 ergy capital cost, for the complete grid-in-
3 tegrated energy storage system, of less
4 than \$100 per kWh;

5 “(iii) have a minimum of 1 full deep
6 charge and discharge cycle per day;

7 “(iv) have a minimum storage dura-
8 tion of 4 hours; and

9 “(v) have a lifetime of at least 20
10 years or at least 8,000 cycles of discharge
11 at full output.

12 “(C) AUTHORIZATION OF APPROPRIA-
13 TIONS.—There are authorized to be appro-
14 priated \$45,000,000 to carry out this para-
15 graph, to remain available until expended.”.